

operated;

an electronic trip unit including a microcomputer which monitors the current in the electrical circuit and generates a trip by automatically operating the operating mechanism to interrupt the current in the electrical circuit when the current exceeds a selectable value;

a non-volatile memory for storing frame rating and current rating of the circuit breaker; and,

an internet connection extending from the microcomputer, wherein the current rating of the circuit breaker may be changed via the internet connection.

38. (Newly Added) The circuit breaker of claim 37 further comprising an error detection program within the microcomputer, wherein the error detection program rejects current ratings greater than the frame rating.

39. (Newly Added) The circuit breaker of claim 37 further comprising a display for displaying the current rating.

REMARKS

This preliminary amendment is being filed prior to examination of this application. No new matter has been added. Entry and consideration of this application is respectfully requested.

In the Specification:

The title has been amended to shorten the title below ten words.

Pages 5-6 have been amended to correct a typographical error and to be consistent with the remainder of the specification.

In the Claims:

Claim 4 has been amended to correct a typographical error.

Claims 27-39 have been newly added. Independent Claims 27, 32, and 37 recite a system, a method, and a circuit breaker similar to the pending claims, but which do not rely on the rating plug for providing the nonvolatile memory.

CONCLUSION

The above-referenced application has not yet been examined and no new matter has been added as a result of this preliminary amendment. Therefore, entry of this preliminary amendment and consideration of the referenced application is requested.

The Examiner is cordially invited to contact the undersigned so that any issues may be promptly resolved.

If there are any additional charges with respect to this Amendment, please charge them to Deposit Account No. 06-1130 maintained by Applicants' Attorneys.

Respectfully submitted,
MICHAEL S. TIGNOR ET AL.

CANTOR COLBURN LLP
Applicants' Attorneys

By: Karen A. Jalbert
Karen A. Jalbert, Patent Agent
Registration No. 39,237

Date: August 22, 2001
Customer No.: 023413

Version with markings to show changes made:

A marked up version of the original title is as follows:

“WORLD WIDE WEB ENABLED AND DIGITAL RATING PLUG [FOR
ELECTRONIC TRIP UNIT IN CIRCUIT BREAKERS]”

A marked up version of the paragraph replaced on Pages 5-6 follows:

“Fig. 2 shows a portion of an exemplary operating mechanism for separating the circuit breaker movable and fixed contacts 17. An exemplary rating plug 7 is shown for connecting with a circuit breaker trip unit 27. A drive shaft or trip bar 23 connects with the opening link 80 by means of the crank 82. In accordance with the invention, a contact carrier drive linkage 84, hereinafter “linkage”, connects with the crank 82 by means of a pivot pin 86 with the movable contact arm 88 via the pivot pin 90. The contacts 17 and other current-carrying components are contained within the circuit breaker base 11 and are insulated from the operating mechanism components within the top cover [15] 12. Electrical isolation between the operating mechanism or trip mechanism 25 and the movable contact arm 88 is assured by the arrangement of the components, not shown, contained within the linkage 84. Other types of operating mechanisms are also within the scope of this invention, including, but not limited to, rotary contact arrangements.”

A “marked up” version of claim 4 follows:

“4. (Amended/Marked up) The circuit breaker of claim 3 further comprising an error detection program within the microcomputer, wherein the error detection program rejects current [rating] ratings greater than the frame rating.”